

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051351

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/552 H01L23/367

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 977 626 A (LEE RONG-SHEN ET AL) 2 November 1999 (1999-11-02) column 1, lines 10-35 column 2, lines 10-46 column 2, line 65 - column 4, line 30; figures 2-6	1-3, 5-10, 12-16
Y	column 5, lines 4-15	4, 11
Y	US 6 229 702 B1 (CHAO SHIN-HUA ET AL) 8 May 2001 (2001-05-08)	4, 11
X	column 2, line 65 - column 3, line 62; figures 1-3	1, 3-5, 8, 10, 11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- * & * document member of the same patent family

Date of the actual completion of the international search

17 December 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/089983 A1 (KO ERIC ET AL) 15 May 2003 (2003-05-15) paragraphs '0003!, '0004!, '0009!, '0011! - '0013! paragraphs '0023! - '0027!; figure 1 paragraph '0030!; figure 3C	1-3, 5-10, 12-16
Y	paragraphs '0033! - '0035!; figures 3E,3F paragraphs '0037!, '0038!; figure 4	4,11
X	US 5 166 772 A (SOLDNER KEITH D ET AL) 24 November 1992 (1992-11-24) column 1, line 34 - column 2, line 11 column 2, line 60 - column 4, line 33; figures 1-3	1-3,5, 8-10,12
X	EP 0 435 530 A (GEN ELECTRIC) 3 July 1991 (1991-07-03) page 5, lines 6-41 column 2, line 60 - column 4, line 33; figures 1,2 page 6, line 20 - page 7, line 21; figure 2a page 8, line 9 - page 9, line 26; figures 6,7	1-5,8-11
P,X	EP 1 347 513 A (BROADCOM CORP) 24 September 2003 (2003-09-24) paragraphs '0003! - '0025! paragraphs '0117! - '0126!, '0135! - '0143! paragraphs '0144! - '0165!; figures 7A-7F paragraphs '0166! - '0171!; figures 8A-8D paragraphs '0172! - '0175!; figure 9A paragraphs '0180! - '0185!; figures 11A-11C paragraphs '0189! - '0193!; figure 13E paragraphs '0195! - '0198!; figure 15A paragraphs '0205! - '0220!	1-16
A	US 5 309 321 A (OLLA MICHAEL A ET AL) 3 May 1994 (1994-05-03)	1-16
A	column 2, line 26 - column 3, line 48; figures 1,2,4	9
A	US 4 814 943 A (OKUAKI HIROSHI) 21 March 1989 (1989-03-21) column 4, lines 10-33; figures 6,7	4,9,11

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Information on patent family members

International Application No

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